

217/782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

City of Springfield (CWLP)
Attn: S. David Farris, CIH-EH & S Manager
CWLP, Municipal Center Complex
7th and Monroe Streets
Springfield, Illinois 62757

Application No.: 01070019

I.D. No.: 167120AAO

Applicant's Designation: BACKUP2001

Date Received: July 5, 2001

Subject: Diesel Generators

Date Issued: December 17, 2001

Operating Permit Expiration

Date: December 17, 2006

Location: City Water, Light & Power (CWLP) Station, 3100 Stevenson Drive,
Springfield, Sangamon County

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and/or air pollution control equipment consisting of three diesel fuel fired internal combustion engines to supply auxiliary power as needed for the existing plant, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
- 2a. The annual consumption of fuel by the engines shall not exceed 213,000 gallons. Compliance with this limitation shall be determined on a monthly basis from a running total of 12 months of data.
- b. Each engine shall not emit more than 47.7, 5.7, 1.0, 1.2, and 1.3 lbs/hour of nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂), volatile organic material (VOM) and particulate matter (PM), respectively. These limits represent short-term emission limits based on data in the application.
- c. Total annual emissions from these three internal combustion engines combined, shall not exceed the following limits:

<u>NO_x</u> <u>(Ton/Yr)</u>	<u>CO</u> <u>(Ton/Yr)</u>	<u>SO₂</u> <u>(Ton/Yr)</u>	<u>VOM</u> <u>(Ton/Yr)</u>	<u>PM</u> <u>(Ton/Yr)</u>
39.5	4.7	0.8	1.0	1.1

These limits are based on the above hourly emission rates and operation of 550 hours per unit, average for a total of 1,650 hours operation per year. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 3a. This permit is issued based on the construction and operation of these three engines not constituting a major modification under the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, because the emissions from these engines are not significant, e.g., permitted NO_x emissions of 39.5 tons/year are less than 40 tons/year.
- b. This permit is issued based on these units satisfying the new units exemption provision 40 CFR 72.7(a), so that the units are exempt from the requirements of the federal Acid Rain Program, other than 40 CFR 72.2 through 72.7 and 72.10 through 72.13. On a calendar year basis, the sulfur content of fuel fired in each engine shall not exceed 0.05 percent by weight, so as to qualify for this exemption.

Note: Even though the engines are intended to supply emergency power, they are connected directly to the substation so that the electric power produced by the engines may not be able to be readily distinguished from other power produced at the source.
- c. The Illinois EPA shall be allowed to sample all fuels stored at the site for the three diesel fired engines.
- 4a. The Permittee shall maintain inspection/maintenance repair records for each engine.
- b. The Permittee shall maintain the following operating records for the source:
 - i. Records for each shipment of fuel oil received, the amount, maximum sulfur content, and supplier.
 - ii. The sulfur content of the fuel oil supply to the engines. For this purpose, sulfur content shall be based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur content of any shipment in the tank.
 - iii. Monthly and annual records of hours of operation for each engine (hours/month and hours/year) and total hours of operation.
 - iv. Monthly and annual records of fuel consumption by the engines (gallons/month and gallons/year).
- 5. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

6. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
7. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

Telephone: 217/782-5811 Fax: 217/782-6348

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

Telephone: 309/693-5461 Fax: 309/693-5467

If you have any questions concerning this permit, please call Youra Benofamil at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:YB:jar

cc: Region 2